

SEQUENCE LISTING

<110> SYNERMORE BIOLOGICS (SUZHOU) CO., LTD.

<120> ANTIBODY SPECIFIC TO ALPHA-TOXIN OF STAPHYLOCOCCAL AUREUS AND USES THEREOF

<130> none

<160> 31

<170> PatentIn version 3.5

<210> 1

<211> 10

<212> PRT

<213> mouse

<400> 1

Gly Tyr Ser Phe Thr Asp Tyr Asn Met Asn
1 5 10

<210> 2

<211> 10

<212> PRT

<213> mouse

<400> 2

Gly Tyr Ser Phe Thr Gly Tyr Phe Met Asn
1 5 10

<210> 3

<211> 17

<212> PRT

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<400> 3

Ser Ile Asn Pro Tyr Tyr Gly Ile Thr Ser Tyr Asn Gln Thr Phe Lys
1 5 10 15

Gly

<210> 4
<211> 17
<212> PRT
<213> mouse

<400> 4

Ser Ile Asn Pro His Tyr Gly Ile Thr Ser Tyr Asn Gln Thr Phe Lys
1 5 10 15

Gly

<210> 5
<211> 17
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<400> 5

Ser Ile Asn Pro Tyr Tyr Gly Ile Thr Thr Tyr Asn Gln Thr Phe Lys
1 5 10 15

Gly

<210> 6
<211> 17
<212> PRT
<213> mouse

<400> 6

Arg Ile Asn Pro Tyr Asn Gly Asp Thr Leu Tyr Lys Gln Asn Phe Lys
1 5 10 15

Asp

<210> 7

<211> 11
<212> PRT
<213> mouse

<400> 7

Ile Tyr Tyr Gly Asp Ser Leu Gly Leu Asp Tyr
1 5 10

<210> 8
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<400> 8

Asp Gly Asp Gly Tyr Tyr Tyr Ala Met Asp Tyr
1 5 10

<210> 9
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<400> 9

Val Tyr Tyr Gly Asp Ser Leu Gly Leu Asp Tyr
1 5 10

<210> 10
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Ser Ala Ser Ser Ser Val Ser Tyr Met His
1 5 10

<210> 11
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<212> PRT
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<400> 11

Ser Ala Ser Ser Ser Ile Ser Tyr Met His
1 5 10

<210> 12

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<212> PRT

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<400> 12

Ser Ala Ser Ser Ser Lys Ser Tyr Ile His
1 5 10

<210> 13

<211> 10

<212> PRT

<213> mouse

<400> 13

Ser Ala Ser Ser Ser Val Ser Tyr Met Tyr
1 5 10

<210> 14

<211> 7

<212> PRT

<213> mouse

<400> 14

Asp Thr Ser Lys Leu Ala Ser
1 5

<210> 15

<211> 7

<212> PRT

<213> mouse

<400> 15

Asp Thr Ser Asn Leu Ala Ser
1 5

<210> 16
<211> 9
<212> PRT
<213> mouse

<400> 16

Gln Gln Trp Ser Ser Asn Pro Leu Thr
1 5

<210> 17
<211> 9
<212> PRT
<213> mouse

<400> 17

Gln Gln Trp Ser Ser Asn Pro Pro Thr
1 5

<210> 18
<211> 9
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<213> mouse

<400> 18

His Gln Arg Ser Ser Tyr Pro Trp Thr
1 5

<210> 19
<211> 120
<212> PRT
<213> mouse

<400> 19

Gln Val Lys Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Ile Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Asp Tyr
20 25 30

Asn Met Asn Trp Val Lys Gln Ser His Gly Lys Ser Leu Glu Trp Ile
35 40 45

Gly Ser Ile Asn Pro Tyr Tyr Gly Ile Thr Ser Tyr Asn Gln Thr Phe
50 55 60

Lys Gly Lys Ala Thr Leu Thr Val Asp Lys Ser Ser Ser Thr Ala Tyr
65 70 75 80

Met Gln Leu Asn Ser Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Ile Tyr Tyr Gly Asp Ser Leu Gly Leu Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Thr Val Thr Val Ser Ser
115 120

<210> 20

<211> 107

<212> PRT

<213> mouse

<400> 20

Asp Ile Glu Leu Thr Gln Ser Pro Ala Ile Met Ser Ala Ser Pro Gly
1 5 10 15

Glu Lys Val Thr Met Thr Cys Ser Ala Ser Ser Ser Val Ser Tyr Met
20 25 30

His Trp Tyr Gln Gln Lys Ser Gly Thr Ser Pro Lys Arg Trp Ile Tyr
35 40 45

Asp Thr Ser Lys Leu Ala Ser Gly Val Pro Ala Arg Phe Ser Gly Ser
50 55 60

Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile Ser Ser Met Glu Ala Glu
65 70 75 80

Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Leu Thr
 85 90 95

Phe Gly Ala Gly Thr Lys Leu Glu Ile Lys Arg
 100 105

<210> 21

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> humanized antibody

<400> 21

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Asp Tyr
 20 25 30

Asn Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45

Gly Ser Ile Asn Pro Tyr Tyr Gly Ile Thr Ser Tyr Asn Gln Thr Phe
 50 55 60

Lys Gly Arg Val Thr Met Thr Arg Asp Thr Ser Ile Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Ile Tyr Tyr Gly Asp Ser Leu Gly Leu Asp Tyr Trp Gly Gln

100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 22

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> humanized antibody

<400> 22

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Asp Tyr
20 25 30

Asn Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Ser Ile Asn Pro Tyr Tyr Gly Ile Thr Ser Tyr Asn Gln Thr Phe
50 55 60

Lys Gly Arg Val Thr Leu Thr Val Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Ile Tyr Tyr Gly Asp Ser Leu Gly Leu Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 23
<211> 120
<212> PRT
<213> Artificial Sequence

<220>
<223> humanized antibody

<400> 23

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Asp Tyr
20 25 30

Asn Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Ser Ile Asn Pro Tyr Tyr Gly Ile Thr Ser Tyr Asn Gln Thr Phe
50 55 60

Lys Gly Arg Val Thr Leu Thr Val Asp Thr Ser Ile Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Ile Tyr Tyr Gly Asp Ser Leu Gly Leu Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 24
<211> 107
<212> PRT
<213> Artificial Sequence

<220>

<223> humanized antibody

<400> 24

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Ser Ala Ser Ser Ser Val Ser Tyr Met
 20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
 35 40 45

Asp Thr Ser Lys Leu Ala Ser Gly Ile Pro Ala Arg Phe Ser Gly Ser
 50 55 60

Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro Glu
65 70 75 80

Asp Phe Ala Val Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Leu Thr
 85 90 95

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
 100 105

<210> 25

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> humanized antibody

<400> 25

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Ser Ala Ser Ser Ser Val Ser Tyr Met

20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Arg Trp Ile Tyr
35 40 45

Asp Thr Ser Lys Leu Ala Ser Gly Ile Pro Ala Arg Phe Ser Gly Ser
50 55 60

Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro Glu
65 70 75 80

Asp Phe Ala Val Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Leu Thr
85 90 95

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
100 105

<210> 26

<211> 107

<212> PRT

<213> Artificial Sequence

<220>

<223> humanized antibody

<400> 26

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Ser Ala Ser Ser Ser Val Ser Tyr Met
20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Arg Leu Ile Tyr
35 40 45

Asp Thr Ser Lys Leu Ala Ser Gly Ile Pro Ala Arg Phe Ser Gly Ser
50 55 60

Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro Glu
65 70 75 80

Asp Phe Ala Val Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Leu Thr
 85 90 95

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
 100 105

<210> 27

<211> 120

<212> PRT

<213> Artificial Sequence

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<400> 27

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Asp Tyr
 20 25 30

Asn Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35 40 45

Gly Ser Ile Asn Pro Tyr Tyr Gly Ile Thr Ser Tyr Ala Gln Thr Phe
 50 55 60

Lys Gly Arg Val Thr Leu Thr Val Asp Lys Ser Ile Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
 85 90 95

Ala Arg Ile Tyr Tyr Gly Asp Ser Leu Gly Leu Asp Tyr Trp Gly Gln

100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 28

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> humanized antibody

<400> 28

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Ser Ala Ser Ser Ser Val Ser Tyr Met
20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Arg Trp Ile Tyr
35 40 45

Asp Thr Ser Lys Leu Ala Ser Gly Ile Pro Ala Arg Phe Ser Gly Ser
50 55 60

Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro Glu
65 70 75 80

Asp Phe Ala Val Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Leu Thr
85 90 95

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
100 105

<210> 29

<211> 120

<212> PRT

<213> Artificial Sequence

<220>

<223> humanized antibody

<400> 29

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ala
1 5 10 15

Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Ser Phe Thr Asp Tyr
20 25 30

Asn Met Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
35 40 45

Gly Ser Ile Asn Pro Tyr Tyr Gly Ile Thr Ser Tyr Ala Gln Thr Phe
50 55 60

Lys Gly Arg Val Thr Leu Thr Val Asp Thr Ser Ile Ser Thr Ala Tyr
65 70 75 80

Met Glu Leu Ser Arg Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
85 90 95

Ala Arg Ile Tyr Tyr Gly Asp Ser Leu Gly Leu Asp Tyr Trp Gly Gln
100 105 110

Gly Thr Leu Val Thr Val Ser Ser
115 120

<210> 30

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> humanized antibody

<400> 30

Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser Leu Ser Pro Gly
1 5 10 15

Glu Arg Ala Thr Leu Ser Cys Ser Ala Ser Ser Ser Val Ser Tyr Met
 20 25 30

His Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Arg Leu Ile Tyr
 35 40 45

Asp Thr Ser Lys Leu Ala Ser Gly Ile Pro Ala Arg Phe Ser Gly Ser
 50 55 60

Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Glu Pro Glu
65 70 75 80

Asp Phe Ala Val Tyr Tyr Cys Gln Gln Trp Ser Ser Asn Pro Leu Thr
 85 90 95

Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
 100 105

<210> 31

<211> 17

<212> PRT

<213> mouse

<400> 31

Ser Ile Asn Pro Tyr Tyr Gly Ile Thr Ser Tyr Asn Gln Thr Phe Arg
1 5 10 15

Gly